

1899 to 1927

Aug 1894⁵ yrs.

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1899 to 1927

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1899

Date, Sept 1st 1894

Time of day, 12 40 PM, of tide, Ebb

Locality, Pinney's Sound

Exact position, Deep Cor. to Cutch, N. 88° 55'

Cutch, N. 88° 55' to Gay Head 93° 11'

Depth, 10 fathoms

Nature of bottom, sandy with blk specks

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 70 therm. No.,

" of surface water, 67 "

" at depth of fathoms, "

" at bottom, 63 7 3 "

Density at surface, 1.023-6 temp., 67

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 30.09

State of sky, Clear

Direction of wind, W S W ; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, "Fish Hawk"

Service to which attached, U S F Commission

Name and rank of commanding officer, Robt Platt

Lieut. U S N

Name and position of observer, O H Cleveland

Matr. U S N

NOTES RELATING TO STATION NO. 1899

Obtained about $\frac{1}{2}$ bushel of
material consisting of Skate
Hound Starfish - Crabs
Sand dollars. Hermit crabs
Keep & sea urchins

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1900*
 Date, *Sept 1st 1894*
 Time of day, *1:10 PM*; of tide, *Ebb*
 Locality, *Vineyard Sound*
 Exact position, *Nobscada Lgh to Cuttyhunk*
Lgt 114° 26' Cuttyhunk to Gay Head
 Depth, *16 fathoms* *119° 10'*
 Nature of bottom, *Sand & shells*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, _____; distance, _____
 Temperature of air, *73* therm. No., _____
 " of surface water, *66* "
 " at depth of _____ fathoms, "
 " at bottom, *66 7/8* "
 Density at surface, *1.0246* temp., *66*
 " at depth of _____ fathoms, "
 " at bottom, _____ "
 Number of salinometer, *7052*
 Barometer reading, *30.09*
 State of sky, *Clear*
 Direction of wind, *WSE*; force, *1*
 Rain, _____
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, *Fish Hawk*
 Service to which attached, *U.S. Com.*
 Name and rank of commanding officer, *Robt Platt*
Lieut. U.S.N.
 Name and position of observer, *W. H. Cleveland*
Master

NOTES RELATING TO STATION NO. 1690

obtained, Sea Urchins 1. Star Fish
Rock Crabs, Hermit Crabs Bead
Shells, a few Skates & Flounders
A number of Peckers,

54 N. 7/2 W, S E 1/2 E, RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1901.*
 Date, *Sept 6th 1894*
 Time of day, *10.15 a.m.*; of tide, *Flood*
 Locality, *Barnards Bay Mass.*
 Exact position, *Mund of Long neck, S by N 1/4 N.*
North end Hog Island Pt S.E. by E 1/4 E,
 Depth, *5 ft 2 ft*
 Nature of bottom, *Coarse Sand*
 Dredging instrument used, *7 ft Beam Trawl,*
 Direction of drift, ; distance,
 Temperature of air, *71* therm. No.,
 " of surface water, *69* "
 " at depth of fathoms, "
 " at bottom, *69* "
 Density at surface, *1023.0* temp., *69*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.04*
 State of sky, *Heavy*
 Direction of wind, *N.W. E.*; force, *4*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U.S. F. C.*
 Name and rank of commanding officer, *R Platt*
Lieut U.S.N.
 Name and position of observer,
James W. Smith
Master U.S.N.

NOTES RELATING TO STATION NO. 1901

Starfishes Several Sponges, and
Sea weeds, Brans, V, Scallops

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1902*
 Date, *Sept 6th 1894*
 Time of day, *10.35 am*; of tide, *Flood*
 Locality, *Barnardo Bay Mass.*
 Exact position, *Tangent N. E. Hog Island 77° 05'*
to Hing Duck Lgh. Hing Duck to Bird Is. Lgh 36.17
 Depth, *5 fms*
 Nature of bottom, *fine bk s. bk sh. B. mud*
 Dredging instrument used, *7ft Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *69.5* therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *68* temp., *69*
1023.0
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.04*
 State of sky, *Heavy*
 Direction of wind, *E. N. E.*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *Robert Platt*
Lieut U. S. N.
 Name and position of observer, *John A. Smith*
Master U. S. N.

NOTES RELATING TO STATION NO. 1902

A small quantity of Finger Sponge
Brass live coral, and Sea weeds.

48.00

643

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1903,

Date, Sept 6.

Time of day, 11.00. a.m.; of tide, Flood.

Locality, Burmonds Bay Mass.

Exact position, W. end Hog Is to King wh. Lgh 48.00' L

West end of Long Neck to Hog Is 118.33. R.

Depth, 7 fms 3 ft

Nature of bottom, Bu. Mud Bk. Shells.

Dredging instrument used, 7 ft Beam Trawl.

Direction of drift, ; distance,

Temperature of air, 70 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1023 temp., 68

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 3004

State of sky, Cloudy

Direction of wind, E. N. E. ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. F. C.

Name and rank of commanding officer, R. Platt

Lieut. U. S. N.

Name and position of observer,

Jas A. Smith
Master U. S. N.

NOTES RELATING TO STATION NO. 1903

3 Spider Crabs 1 *Scilla*, small *Stella*
Broken Shells and Sea weed,

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1904*
 Date, *Sept 7 1894*
 Time of day, *9.40 a.m.*; of tide, *1/4 Flood tide*
 Locality, *Barnstable Bay, Mass.*
 Exact position, *N. of Lt. to Commercial R. Bldg. 37.3*
Commercial R. Bldg. to Court House 9. 98.30
 Depth, *4 1/2 fms.*
 Nature of bottom, *Fine sand*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *68* therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, *69* *W. & A. 50302.*
 Density at surface, *102400* temp., *69*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7200*
 Barometer reading, *30.04*
 State of sky, *B. c.*
 Direction of wind, *S. W.*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *Lt. Blunt*
Junior, U. S. F. C.
 Name and position of observer,

W. H. M.

NOTES RELATING TO STATION NO. 1924

Yellow Springs, N. Y.
1. Platanus, several. 2. Quercus. 3. Fraxinus.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1905*
 Date, *Sept 7th 1894*
 Time of day, *10.00 am*; of tide, *1/4 Flood*
 Locality, *Burnside Bay N.C.*
 Exact position, *Rind. Light to Sampling Lgh. 46.22*
7 miles Ph. Lgh. to Sampling Lgh. 102.32
 Depth, *6 1/2 fathoms*
 Nature of bottom, *Hard & Sand*
 Dredging instrument used, *7 ft. Keane Dredge*
 Direction of drift, _____; distance, _____
 Temperature of air, *68*, therm. No., _____
 " of surface water, _____
 " at depth of _____ fathoms, _____
 " at bottom, *68*, " *50303*
 Density at surface, *102.295*, temp., *68.5*
 " at depth of _____ fathoms, _____
 " at bottom, _____
 Number of salinometer, *7205*
 Barometer reading, *30.04*
 State of sky, *Heavy*
 Direction of wind, *S. W.*; force, *2*
 Rain, *No*
 Direction of surface current, _____; force, _____
 " of bottom " _____; force, _____
 Name of vessel, *U.S.S. Albatross*
 Service to which attached, *U.S.N.*
 Name and rank of commanding officer, *R. M. Patton*
Lieutenant J. M. Patton
 Name and position of observer, *James A. Smith*
Master U.S.N.

NOTES RELATING TO STATION NO. 1905

Spiders, larvae, & other insects
1 spider, 1 larva.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1906*
 Date, *Sept 7th 1894*
 Time of day, *10.40 a.m.*; of tide, *1/2 Flood Tide*
 Locality, *Round Bay, Maine*
 Exact position, *Base of light to Middle light 50.15*
Base of light to Commercial light 121.17
 Depth, *4 1/2 fms*
 Nature of bottom, *Fine sand*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *75* therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, *68 2100* "50303
 Density at surface, *102260* temp., *68.6*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7205*
 Barometer reading, *30.04*
 State of sky, *B, C, S*
 Direction of wind, *N. E. W.*; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *R. Platt*
Yeoman 2d Lt. U. S. N.
 Name and position of observer,

NOTES RELATING TO STATION NO. 1906.

Yellow Springs, N. Y. - 1906
1. Synthesis of ...

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1907*
 Date, *Sept 8th 1894*
 Time of day, *12.05 P.M.*; of tide, *1/2 Flood Stage*
 Locality, *Vineyard Sound, Mass.*
 Exact position, *West end of Vineyard Sound*
1 1/2 miles S. by E. of Vineyard Sound
 Depth, *10 fms*
 Nature of bottom, *Gravel & fine blue sand*
 Dredging instrument used, *7 ft. beam trawl*
 Direction of drift, ; distance,
 Temperature of air, *72* therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *102410* temp., *68*,
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7205*
 Barometer reading, *30.09*
 State of sky, *B. cloudy*
 Direction of wind, *S. E.* ; force, *5*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U. S. F. Co.*
 Name and rank of commanding officer, *R. Platt*
Lieutenant U. S. N.
 Name and position of observer,
Jas A. Smith
Master U. S. N.

NOTES RELATING TO STATION NO. 1957

*Spiders, Beetles, Spiders, The Great Horn
Owl, and other birds and
Mammals.*

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1908*
 Date, *Sept 14 1894*
 Time of day, *9 A M* : of tide, *1/4 quarter Ebb*
 Locality, *Menemsha, Bight Mass*
 Exact position, *3/4 mile N E of Lobster*
vine
 Depth, *6 1/2*
 Nature of bottom, *Fine gray sand*
 Dredging instrument used, *7 ft beam trawl*
 Direction of drift, : distance;
 Temperature of air, *72* therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1024.90* temp., *64*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.46*
 State of sky, *Cloudy*
 Direction of wind, *S E*, force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *U.S. Fish Hawk*
 Service to which attached, *U.S. F.C.*
 Name and rank of commanding officer, *W. L. Dood*
Ensign U.S.N.
 Name and position of observer, *C. H. Cleveland*
Master U.S.N.

NOTES RELATING TO STATION NO. 1908

Crabs - Starfish - Lobsters
Skate - Flounders - Sea Robbers
Hermit Crabs, Dead Shells

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1909

Date, Sept 14th 1894Time of day, 10:15 AM; of tide, 1st quarter Ebb

Locality, Menomasha Bay

Exact position, 1/16 mile N N E from Gary

Vessel Lt No

Depth, 3 fathoms

Nature of bottom, white sandy bottom

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 72 therm. No.,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface, 1024.8 temp., 65

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 30.47

State of sky, Cloudy

Direction of wind, S S E ; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U S F C

Name and rank of commanding officer, W L Good

Ensign U S N

Name and position of observer, C H Cleveland

Mate U S N

NOTES RELATING TO STATION NO. 1909

Flounders - Skitts - Crabs - Kelp
Sea Robbers - Starfish - Hermit
Crabs - young Sea Bass
Stone Crabs

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1910*
 Date, *Sept 14th 1894*
 Time of day, *10:55 A.M.* of tide, *1st half Ebb*
 Locality, *Vineyard Sound*
 Exact position, *Between Pt. & Pt. Punguon Hill 123° 10'*
Outing Point & Gay Head In 99° 50'
 Depth, *13 1/2 fathoms*
 Nature of bottom, *gr Sand & sh. shells*
 Dredging instrument used, *7 ft Bean Trawl*
 Direction of drift, *SSW* : distance, *1/4 mile*
 Temperature of air, *78* therm. No.,
 " of surface water,
 " at depth of fathoms,
 " at bottom,
 Density at surface, *1024.8* temp., *65*
 " at depth of fathoms,
 " at bottom,
 Number of salinometer, *7052*
 Barometer reading, *30.44*
 State of sky, *Cloudy*
 Direction of wind, *SSW* ; force, *1*
 Rain,
 Direction of surface current, : force,
 " of bottom " : force,
 Name of vessel, *Fresh Hawk*
 Service to which attached, *U.S.N.*
 Name and rank of commanding officer, *W. L. Braden*
Ensign U.S.N.
 Name and position of observer, *C. H. Cleveland*
Mate U.S.N.

NOTES RELATING TO STATION NO. 1910

obtained about a bushel of
materials consisting of dead
shells - Skates - Crabs - Sand dollars
Starfish - young Sea Robins
Hermit Crabs - Sea Urchins

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1911

Date, Sept 14th 1894

Time of day, 12 noon: of tide, 3/4 Ebb

Locality, Vineyard Sound 118° 35'

Exact position 40° 30' N. 71° 13' W. 1/2 mile S. of

Cuttyhunk Lt. to Gay Head Lt. 121° 13'

Depth, 14 fathoms

Nature of bottom, sand gravel & shells

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, : distance,

Temperature of air, 76 therm. No.,

" of surface water, 64 1/2

" at depth of fathoms,

" at bottom,

Density at surface, 1024.8 temp., 64 1/2

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 30.40

State of sky, Cloudy

Direction of wind, SSW ; force, 2

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, Fish Hawk

Service to which attached, U S F C

Name and rank of commanding officer, W L Brad

Ensign U S N

Name and position of observer, C H Chase

Mate U S N

NOTES RELATING TO STATION NO. 1911

Hundreds - Crabs. Hermit Crabs.
Kelp - Sand dollars
Sea urchins

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1912*
 Date, *Sept 19th 1894*
 Time of day, *2 45 PM*; of tide, *3/4 Ebb*
 Locality, *Buzzards Bay*
 Exact position, *Point of Wings Neck N 89° 36'*
Wings Neck to Buzzards Neck of N 94° 01'
 Depth, *3 fathoms + 20 ft*
 Nature of bottom, *Gr S & bk sp*
 Dredging instrument used, *7 ft 10 Foul*
 Direction of drift, : distance.
 Temperature of air, *65* therm. No.,
 " of surface water, *69 1/2* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1022.6* temp., *69 1/2*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *29.94*
 State of sky, *Cloudy*
 Direction of wind, *E N E*; force, *2*
 Rain,
 Direction of surface current, : force,
 " of bottom " : force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U S F C*
 Name and rank of commanding officer, *W L Owen*
Ensign USN
 Name and position of observer, *C H Cleveland*
Master USN

NOTES RELATING TO STATION NO. 1912

a few pi's yellow sponge
sea conch shells - gray sea robins
Dead Escallop Shells

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1913

Date, Sept 19 1894

Time of day, 3.05 PM ; of tide, 3/4 Ebb

Locality, Buzzards Bay

Exact position, Bird Pt to Wings Neck Lt 124° 26'

Wings Neck Lt to Tangut Head of Mashomet 58° 48'

Depth, 4 fathoms + 2 ft

Nature of bottom, hard, s.

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 66 therm. No.,

" of surface water, ..

" at depth of fathoms, ..

" at bottom, ..

Density at surface, 1022.6 temp., 69 1/2

" at depth of fathoms, ..

" at bottom, ..

Number of salinometer, 7052

Barometer reading, 29.92

State of sky, Cloudy

Direction of wind, ENE ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, "Fish Hawk"

Service to which attached, U.S. Fish Com.

Name and rank of commanding officer, W. H. Brad

Ensign U.S.N.

Name and position of observer, L. H. Cleaveland

Mate U.S.N.

NOTES RELATING TO STATION NO. 1913

About a bushel of yellow lump
sponges a few live Escallops
Dead Birch & Escallops shells

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1914

Date, Sept 19, 1894

Time of day, 3.30 PM: of tide, 3/4 Ebb

Locality, Buzzards Bay

Exact position, Bird Is. Lt. & Wings Neck Lt. 42° 12' 18"

Wings Neck Lt. & Tangier Head of Mashpee 50° 27'

Depth, 4 fathoms & 3 ft

Nature of bottom, Mud, S

Dredging instrument used, 7 ft Bean Trawl

Direction of drift, ; distance,

Temperature of air, 66 therm. No.,

" of surface water, 69 1/2 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1022.6 temp., 69 1/2

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 29.92

State of sky, Cloudy

Direction of wind, ENE ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, USF&C

Name and rank of commanding officer, W. L. Dood

Ensign USN

Name and position of observer, B. H. Cleveland

Master USN

NOTES RELATING TO STATION NO. 1914

about two bushel of yellow lump
sponge, dead Escallops shells,
a few live Escallops and
Spider Crab.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1915*
 Date, *Sept 26th 1894*
 Time of day, *2.10 PM*; of tide, *1/2 Flood*
 Locality, *Minimsha Bight*
 Exact position,

 Depth, *7 fathoms*
 Nature of bottom, *Sandy bottom*
 Dredging instrument used, *7 ft Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *64* therm. No.,
 " of surface water, *64* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1024.0* temp., *64*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *7052*
 Barometer reading, *30.42*
 State of sky, *Partly Cloudy*
 Direction of wind, *East*; force, *5*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U S F C*
 Name and rank of commanding officer, *W L Oran*
Ensign USN
 Name and position of observer, *B H Ellswood*
Mate USN

NOTES RELATING TO STATION NO. 1915

Obtained about $1/2$ bushel of
material consisting of Lobsters
Crabs - Star fish - Kelp & yellow
lump sponges. Dead Clam Shells
Skate fish

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1916*

Date, *Sept 26th 1894*

Time of day, *2 30 PM*; of tide, *1/4 Flood*

Locality, *Memphis River*

Exact position,

Depth, *10 fathoms*

Nature of bottom, *5 ft m*

Dredging instrument used,

7 ft Beam Trawl

Direction of drift,

; distance,

Temperature of air, *65*

therm. No.,

" of surface water, *64*

" at depth of fathoms,

" at bottom,

Density at surface, *1.024.2*

temp., *64*

" at depth of fathoms,

" at bottom,

Number of salinometer, *7052*

Barometer reading, *30.42*

State of sky, *Partly Cloudy*

Direction of wind, *East*; force, *5*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *Fish Hawk*

Service to which attached, *U.S. Fish Com.*

Name and rank of commanding officer, *2nd Lieut.*

Ensign U.S.N.

Name and position of observer, *C. H. Chandler*

Master U.S.N.

NOTES RELATING TO STATION NO. 1916

obtained about 1/2 hour

Material Consisting of
lobster, flounder, crab
hake, King fish, yellow
lumps sponge, starfish
young sea Robin. Puffin
fish 1 black 1 blue,
(Callinectes sapidus)

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1917*
 Date, *Oct 2^o 1894*
 Time of day, *7.15 AM* : of tide, *3/4 Flood*
 Locality, *Chesapeake Bay*
 Exact position, *Button Bluff + Plantation*
Station + No 50 Chesapeake Bay + Cape Charles
 Depth, *22 fathoms*
 Nature of bottom, *S + P. Muds*
 Dredging instrument used, *7 ft B Trawl*
 Direction of drift, ; distance,
 Temperature of air, *60* therm. No.,
 " of surface water, *68*
 " at depth of fathoms,
 " at bottom,
 Density at surface, *1017.4* temp., *68*
 " at depth of fathoms,
 " at bottom,
 Number of salinometer, *7052*
 Barometer reading, *30.30*
 State of sky, *Clear*
 Direction of wind, *NE* ; force, *2*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U S F C*
 Name and rank of commanding officer, *W H Wood*
Captain USN
 Name and position of observer, *B H Clements*
Master USN

NOTES RELATING TO STATION NO. 1917

Obtained about 2 bushel of
Grogonia sea grass
Numerous Hog chickens. Starfish
Cockles. Crabs. Squilla

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1918*

Date, *Oct 12 1894*

Time of day, *7.45 AM*, of tide, *3/4 Flood*

Locality, *Chesapeake Bay*

Exact position, *Bucton Bluffs & Plantation flats*

St. H. Co., Chesapeake & Potomac Est. & Dep. at
Cape Charles Co. 20 fathoms

Nature of bottom, *B. M.*

Dredging instrument used, *7 ft Bean Trawl*

Direction of drift, ; distance,

Temperature of air, *60* therm. No.,

" of surface water, *68* ..

" at depth of fathoms, ..

" at bottom, ..

Density at surface, *1.016.6* temp. *68*

" at depth of fathoms, ..

" at bottom, ..

Number of salinometer, *7052*

Barometer reading, *30.30*

State of sky, *Clear*

Direction of wind, *NE* ; force, *2*

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, *Fish Hawk*

Service to which attached, *USF*

Name and rank of commanding officer, *W. L. Brown*

Ensign USN

Name and position of observer, *S. H. Cleveland*

Master USN

NOTES RELATING TO STATION NO. 1918

Obtained about a basket of
material consisting of crabs
Starfish. Corals, Hag skeleton
Numerous, Gorgonia - yellow string
sponge and grass. Conch eggs
1 Sea Pigeon

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1919*
 Date, *Oct 12th 1894*
 Time of day, *6.45 A.M.* ; of tide, *Last of Flood*
 Locality, *Chesapeake Bay*
 Exact position, *Battle Bluff & Plantation Flats*
St No. 50, Chesapeake St No. 4 Depot
 Depth, *26 fathoms*
 Nature of bottom, *BLK M*
 Dredging instrument used, *7 ft B. Trawl*
 Direction of drift, : distance.
 Temperature of air *68* therm. No.,
 " of surface water, *65*
 " at depth of fathoms,
 " at bottom,
 Density at surface, *1.016-3* temp., *65*
 " at depth of fathoms,
 " at bottom,
 Number of salinometer, *7052*
 Barometer reading, *30.30*
 State of sky, *Clear*
 Direction of wind, *NE* ; force, *3*
 Rain,
 Direction of surface current, ; force,
 " of bottom, " : force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U.S.N.*
 Name and rank of commanding officer, *Wm. Brown*
Ensign USN
 Name and position of observer, *W. H. Cleveland*
Master

NOTES RELATING TO STATION NO. 1920

Obtained about $\frac{1}{2}$ bushel of material
consisting of Cuckoo Crab - Shrimp
Gorgonia - Grass Hag Chiton
Starfish - Coral. 1 Sea Pigeon

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. *1920*
 Date, *Oct 12th 1894*
 Time of day, *9.10 a.m.* ; of tide, *High water*
 Locality, *Chesapeake Bay*
 Exact position *Battle Bluff & Plantation flats St*
N. to Chesapeake St No & Depth at Cape
Ches City St
 Depth, *21 fathoms*
 Nature of bottom, *Blk M*
 Dredging instrument used, *7 ft B Trawl*
 Direction of drift, : distance,
 Temperature of air, *68* therm. No.,
 " of surface water, *66*
 " at depth of fathoms,
 " at bottom,
 Density at surface, *1.016-4* temp., *66*
 " at depth of fathoms,
 " at bottom,
 Number of salinometer, *7052*
 Barometer reading, *30.30*
 State of sky, *Clear*
 Direction of wind, *NE* ; force, *3*
 Rain,
 Direction of surface current, : force,
 " of bottom " : force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U S F C*
 Name and rank of commanding officer, *W L Danks*
Ensign U S F C
 Name and position of observer, *E H Cleveland*
Mate U S N

NOTES RELATING TO STATION NO. 1920

obtained about a bucket of material
consisting of Graptolites, Cretaceous Crabs.
Star fish - Sponges - Dead shells
with coral attached. Very abundant
yellow lumps sponges

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. *1921*
 Date, *Apr 23rd 1895*
 Time of day, *9.50 AM*: of tide, *Flood*
 Locality, *Chesapeake Bay*
 Exact position, *2 1/2 miles S S E of Green*
Maryland Light
 Depth, *18 fathoms*
 Nature of bottom,
 Dredging instrument used, *7 ft. B. Vane's dredge*
glass float attached to the beam
 Direction of drift, : distance,
 Temperature of air, *59* therm. No.,
 " of surface water, *53* "
 " at depth of fathoms, "
 " at bottom, "
 Density at surface, *1.0007* temp., *53*
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, *70,47*
 Barometer reading, *29.94*
 State of sky, *Clear, hazy over the bay*
 Direction of wind, *S* : force, *1*
 Rain,
 Direction of surface current, : force,
 " of bottom " : force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U. S. F. C.*
 Name and rank of commanding officer, *Robt. Platt*
Lieut. Zepher
 Name and position of observer, *C. H. Cleveland*
Master of the

NOTES RELATING TO STATION NO. 1921

At 10.30 hour in the Trawl

No specimens obtained

The Trawl was lowered about 12
± 15 fathoms from the surface
trying to catch fish at the
intermediate depths

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. 1922

Date, April 23-1895

Time of day, 10.35 A.M.; of tide, Flood

Locality, Chesapeake Bay

Exact position, 2 1/2 miles ESE of East

Tricornis Pt. Ho

Depth, 18 fathoms

Nature of bottom,

Dredging instrument used, 7 ft B. Trawl with 14
glass floats attached to the beam

Direction of drift, ; distance,

Temperature of air, 62

therm. No.,

" of surface water, 53

" at depth of fathoms,

" at bottom,

Density at surface, 10007-

temp., 53

" at depth of fathoms,

" at bottom,

Number of salinometer, 7047

Barometer reading, 29.92

State of sky, Clear, hazy over the bay

Direction of wind, S ; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S.F.C.S. Fish Hawk

Service to which attached, U.S.F. Commission

Name and rank of commanding officer, Robt. Platt

Lieut. Agns

Name and position of observer, S. H. Cleveland

Attn Agns

NOTES RELATING TO STATION NO. 1923

The beam was lowered to the bottom
At 11.30, and here in at bottom
containing about 8 bushels of mud &
dead grass, Crabs, Hog Suckers,
Squilla - Fresh fish - Flounders. Hake
Shrimp.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1924

Date, Apr 23 1895

Time of day, 12.30 PM ; of tide, Ebb

Locality, Chesapeake Bay

Exact position, 3 1/2 miles S E by E of Great
Frimman's Shoals

Depth, 11 fathoms

Nature of bottom, h s

Dredging instrument used, 2 ft B. Beam trawl with glass
plate attached to the beam

Direction of drift, ; distance,

Temperature of air, 64 therm. No.,

" of surface water, 53 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1000.4 temp., 53

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7047

Barometer reading, 29.92

State of sky, Clear and hazy over the bay

Direction of wind, N ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " : force,

Name of vessel, "Fish Hawk"

Service to which attached, U. S. Fish Commission

Name and rank of commanding officer, Lieut. Platt

Lieut. Platt

Name and position of observer, C. H. Chanceland

Attest Lieut.

NOTES RELATING TO STATION NO. 1924

At 12.30 the trawl was lowered
to the bottom and hauled in at 12.55
catching a little dead grass and a
few shrimp. Suspensions of particles
and headed in for first microscope
study. Van

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1925*
 Date, *Sept 14 1895*
 Time of day, *9.25 a.m.*; of tide,
 Locality, *off Pensacola*
 Exact position, *Pensacola with its beam NW dist 24 miles*
Sledge down 9.15 at bottom 9.5
up 10 at surface 10.9
 Depth, *26 fathoms* *at 2.40, 27 fathoms 16.29*
 Nature of bottom, *Gr S & H spks*
 Dredging instrument used, *7 foot Beam Trawl*
 Direction of drift, ; distance,
 Temperature of air, *94* therm. No.,
 " of surface water, *86*
 " at depth of fathoms,
 " at bottom, *78*
 Density at surface, *1027.2* temp., *86*
10 a.m. " at depth of fathoms, *85*
 " at bottom, *1026.0* " *78*
10 a.m. " *1026.0* " *77*
 Number of salinometer, *7052*
 Barometer reading, *29.84*
 State of sky, *Clear*
 Direction of wind, *South*; force, *1*
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, *"Fish Hawk"*
 Service to which attached, *U. S. F. Commission*
 Name and rank of commanding officer, *J. Swift*
Lieut. J. Swift
 Name and position of observer, *C. H. Chapman*
Chas. Swift

NOTES RELATING TO STATION NO. 1925

Obtained about a bushel of material consisting of 2 small octopuses, ^{4/10} Coral, Six Scallop Shells. Red Lump sponge a few small Shrimp. young crabs 1 Pipe Fish. 1 Sea Robin. 1 Eel fish. 1 young Squid. *Haetithurax* 1 worm tube. *Equilla*. 1 Star fish 1 large Sea Cucumber. 1 small Sea fish. 1 Sand dollar 1 small octopus about 4 in circumference. The body of the octopuses were about 7 inches long & the tentacles about 12 inches in length.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. *1926*
 Date, *Sept 14 95*
 Time of day, *10, 25 AM* of tide,
 Locality, *off Pensacola*
 Exact position, *Pensacola Pt. Ho. bearing N 57 W dist 2.4 miles*
Sledge down 10.25 at bottom 10.35
up 11.10 " surface 11.25
 Depth, *29 fathoms*
 Nature of bottom, *Gr S ybk spts*
 Dredging instrument used, *7 foot Bean Trawl*
 Direction of drift, ; distance,
 Temperature of air, *91* therm. No.,
 .. of surface water, *85* ..
 .. at depth of fathoms, ..
 .. at bottom, *77* ..
 Density at surface, *1022.4* temp., *85*
 .. at depth of fathoms, ..
 .. at bottom, *1026.0* .. *77*
 Number of salinometer, *7052*
 Barometer reading, *29.84*
 State of sky, *Clear*
 Direction of wind, *South* ; force, *1*
 Rain,
 Direction of surface current, ; force,
 .. of bottom " ; force,
 Name of vessel, *Fish Hawk*
 Service to which attached, *U. S. Fish Commission*
 Name and rank of commanding officer, *J. Swift*
Lieut. U.S.N.
 Name and position of observer, *C. H. Chapman*
Master U.S.N.

NOTES RELATING TO STATION NO. 1926

Obtained a small quantity of material
but no *Metridia* fish,
net was torn, caught 1 *Octopus*
about 5 ft in circumference, some
Red Coral, 3 small sea fish,
1 bucket of sponge (about 1/2 bushel of dead
Scallop shells) 1 small squid
1 small bat fish, 1 sea urchin
1 sand dollar

The body of the *Octopus* was
about 10 inches long and the
tentacles about 12" long

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1927
Date, Sept 14th 1895
Time of day, 11.50 A.M.; of tide,
Locality, Off Pensacola
Exact position, Pensacola Lt. Ho. being NW 1/4 Sec. 16 T. 1 N. R. 1 W.
Sounding down 11.50 at bottom 12 fathoms
" " 1.05 " surface 1.15
Depth, 23 fathoms
Nature of bottom, Gr S & bk spts
Dredging instrument used, 7 ft Beam Trawl
Direction of drift, : distance.
Temperature of air, 90 therm. No.,
" of surface water, 86
" at depth of fathoms,
" at bottom, 78
Density at surface, 1.0222 temp., 86
" at depth of fathoms,
" at bottom, 1.0260 " 78
Number of salinometer, 70.52
Barometer reading, 29.84
State of sky, Clear
Direction of wind, South: force, 1
Rain,
Direction of surface current, : force,
" of bottom " : force,
Name of vessel, Fish Hawk
Service to which attached, U.S.F. Commission
Name and rank of commanding officer, F. J. Smith
Lieut. U.S.N.
Name and position of observer, C. H. Cleveland
Master U.S.N.

NOTES RELATING TO STATION NO. 1927

Obtained about one bushel
of material consisting of
3 Octopus about 6 inches in
length with tentacles about
10 inches long.

One bucket of Rock Lizards,
1/2 bushel of dead Scallops,
Shells, a few small fish
which are not identifiable.
2 Sea Eels and a few
Shrimps.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, : of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used.

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, : force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____
 Date, _____
 Time of day, _____ ; of tide, _____
 Locality, _____
 Exact position, _____
 Depth, _____
 Nature of bottom, _____
 Dredging instrument used, _____
 Direction of drift, _____ ; distance, _____
 Temperature of air, _____ therm. No., _____
 " of surface water, _____
 " at depth of _____ fathoms, _____
 " at bottom, _____
 Density at surface, _____ temp., _____
 " at depth of _____ fathoms, _____
 " at bottom, _____
 Number of salinometer, _____
 Barometer reading, _____
 State of sky, _____
 Direction of wind, _____ ; force, _____
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " _____ ; force, _____
 Name of vessel, _____
 Service to which attached, _____
 Name and rank of commanding officer, _____
 Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____
 Date, _____
 Time of day, _____ ; of tide, _____
 Locality, _____
 Exact position, _____

 Depth, _____
 Nature of bottom, _____
 Dredging instrument used, _____
 Direction of drift, _____ ; distance, _____
 Temperature of air, _____ therm. No., _____
 " of surface water, _____ " _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Density at surface, _____ temp., _____
 " at depth of _____ fathoms, _____ " _____
 " at bottom, _____ " _____
 Number of salinometer, _____
 Barometer reading, _____
 State of sky, _____
 Direction of wind, _____ ; force, _____
 Rain, _____
 Direction of surface current, _____ ; force, _____
 " of bottom " _____ ; force, _____
 Name of vessel, _____
 Service to which attached, _____
 Name and rank of commanding officer, _____

 Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom.

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Density at surface, _____ temp., _____

" at depth of _____ fathoms, _____ "

" at bottom, _____ "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " _____ ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom.

Dredging instrument used,

Direction of drift, ; distance.

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, : of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, ..

" at depth of fathoms, ..

" at bottom, ..

Density at surface, temp.,

" at depth of fathoms, ..

" at bottom, ..

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, ..

" at depth of fathoms, ..

" at bottom, ..

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, : of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance.

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance.

Temperature of air. therm. No.,

“ of surface water, “

“ at depth of fathoms, “

“ at bottom, “

Density at surface, temp.,

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, : of tide,

Locality,

Exact position,

Depth,

Nature of bottom.

Dredging instrument used,

Direction of drift, : distance.

Temperature of air. therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer.

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance.

Temperature of air, therm. No.,

“ of surface water, “

“ at depth of fathoms, “

“ at bottom, “

Density at surface, temp.,

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer,

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance.

Temperature of air. therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air. therm. No.,

" of surface water, ..

" at depth of fathoms, ..

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance.

Temperature of air, therm. No.,

“ of surface water, “

“ at depth of fathoms, “

“ at bottom, “

Density at surface, temp.,

“ at depth of fathoms, “

“ at bottom, “

Number of salinometer.

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

“ of bottom “ ; force,

Name of vessel.

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom.

Dredging instrument used.

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer.

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING, TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____